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ITSE 1450

Questions\_3\_4

1. Sequential Task Pattern:

- Description: In this pattern, software development tasks are completed sequentially, with each task depending on the completion of the previous one.

- Example: Developing a web application follows a sequential task pattern. First, you need to design the user interface (Task A). After that, you can proceed to develop the backend logic (Task B), and finally, perform testing and quality assurance (Task C).

2. Parallel Task Pattern:

- Description: In a parallel task pattern, different software development tasks can occur simultaneously or independently, without strict dependencies.

- Example: Building a mobile app exhibits a parallel task pattern. While the development team works on coding features (Task A), the quality assurance team can simultaneously conduct testing (Task B), and the user interface designers can create app visuals (Task C).

3. Overlapping Task Pattern (Concurrent):

- Description: Overlapping task patterns involve tasks that start before previous ones are complete, leading to concurrency and potential time savings.

- Example: Software development often follows an overlapping task pattern. While coding specific modules (Task A), the documentation team can concurrently begin preparing user manuals (Task B), and the deployment team can configure servers (Task C).